

8

Mississippi

MAAP

GRADE 7

MATH

PRACTICE TESTS



Standards Aligned
Problem Solving

For Comprehensive
Assessment Programs



**8 PRINTED
TESTS**



**2 ONLINE
TESTS**



Use these two additional online practice tests
for **extra review** after the printed tests in this book.



BUILD CONFIDENCE



STRENGTHEN SKILLS



THINK SMARTER



BE TEST-READY

8 Mississippi MAAP Grade 7 Math Practice Tests

Daily-ready review of Mississippi Grade 7 proportions, rational numbers, algebra, scale drawings, circles, and data analysis



Eight complete 40-question Grade 7 MAAP practice rounds with proportional relationships, percents, rational numbers, expressions, equations, geometry, statistics, probability, answer keys, and clear explanations for every item.

Jay Daie and Reza Nazari



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Welcome, Mississippi Grade 7 Problem Solver!

Eight focused rounds for sharper MAAP math thinking

This book gives you eight full Grade 7 MAAP math practice tests. Each round is built to help you notice structure, compare quantities, use proportional reasoning, handle rational numbers, and explain your thinking with care.

Your Mississippi Practice Promise

I will read every question carefully, choose a strategy that fits, write enough work to prove my answer, and use corrections as training for the next test.

Read

Model

Verify

How to Use This Book

An eight-session plan for confident Grade 7 review

1. **Warm up with the review pages.** Notice the big ideas before starting the tests.
2. **Complete one test at a time.** Treat each 40-question round like a real practice session.
3. **Show your reasoning.** Jot a proportion, equation, diagram, number line, or quick estimate when it helps.
4. **Correct actively.** Rework missed items before reading the explanation.
5. **Choose the next target.** After each test, name one skill and one habit to improve.

Mississippi review rhythm: Work a test, score it, study your misses, then come back ready for the next round with one clear goal.



What Is Inside?

Eight MAAP tests, 320 questions, and a complete review path

Part	What You Will Practice
Tests 1–3	Proportional relationships, unit rates, percents, rational-number operations, and careful reading.
Tests 4–6	Expressions, equations, inequalities, scale drawings, geometry, and multi-step problem solving.
Tests 7–8	Statistics, probability, mixed review, stamina, and choosing efficient strategies.
Answer Pages	Compact keys and explanations that show why each answer works.

The tests are mixed on purpose. Grade 7 success means recognizing which idea is being tested even when the next question changes format.



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- 1) A comparison of two loans shows: Loan 1 costs \$240 in interest on \$3000 for 2 years, while Loan 2 costs \$360 in interest on \$3000 for 2 years. How much higher is Loan 2's interest rate than Loan 1's?

☐ A. 8% ☐ C. 6%
☐ B. 4% ☐ D. 2%

- 2) For the inequality $x - 4 \geq 3$, which value is **not** a solution?

☐ A. $x = 7$ ☐ C. $x = 6$
☐ B. $x = 10$ ☐ D. $x = 100$

- 3) Simplify: $(3x + 5) + (2x - 7)$

☐ A. $5x - 2$ ☐ C. $5x - 12$
☐ B. $5x + 2$ ☐ D. $6x - 2$

- 4) Your checking account starts with a balance of \$800. You deposit \$200, withdraw \$150, and receive \$300 in direct deposit. What is your new balance?

- 5) Solve: $-3x + 8 = 2$

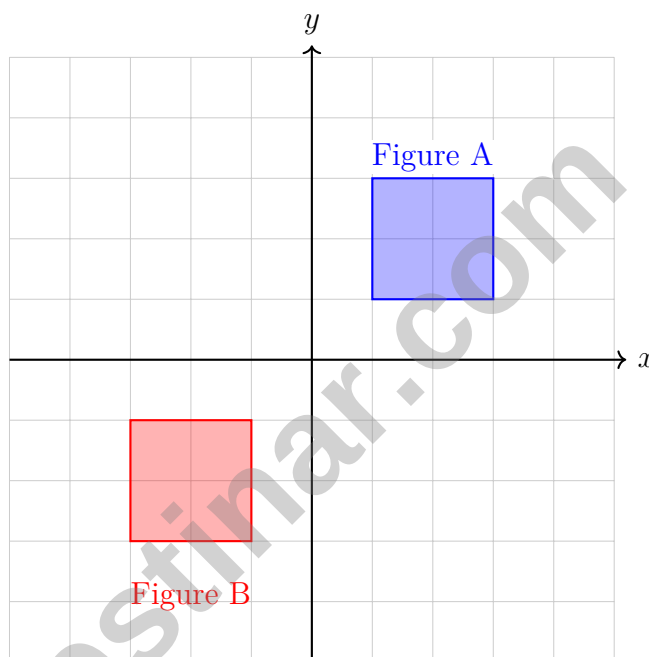
$$\begin{array}{l} -3x + 8 = 2 \\ \downarrow \text{Subtract 8} \\ -3x = -6 \\ \downarrow \text{Divide by } -3 \\ x = 2 \end{array}$$

☐ A. $x = 1$ ☐ C. $x = 3$
☐ B. $x = 2$ ☐ D. $x = 4$



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- 6) A savings goal is \$1,200 for a laptop. If someone saves \$40 per month, how many months will it take to reach the goal?



7)

What transformation maps Figure A to Figure B?

- ☐ A. Translation by $(-4, -4)$ ☐ C. Reflection over the line $y = -x$
☐ B. Rotation of 180° about the origin ☐ D. Rotation of 90° counterclockwise



8) Evaluate $-72 \div 8$.

☐ A. -9

☐ C. 8

☐ B. -8

☐ D. 9

9) A store marks up items by $\frac{1}{4}$ of the cost. If an item costs \$80 to the store, what is the selling price?

☐ A. \$20

☐ C. \$100

☐ B. \$90

☐ D. \$120

10) Add: $-12 + 7 + (-5)$. Show your work.

11) Which number is a perfect square?

☐ A. 15

☐ C. 35

☐ B. 25

☐ D. 45

12) A comparison table for scientific notation values is shown below:

Scientific Notation	Standard Form
5.0×10^3	5,000
5.0×10^2	500
5.0×10^{-1}	?

What is the value for 5.0×10^{-1} ?

☐ A. 0.05

☐ C. 50

☐ B. 0.5

☐ D. $5,000$



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- 1) A coin is flipped twice to simulate a compound event. How many outcomes involve “at least one heads”?

☐ A. 1☐ C. 3☐ B. 2☐ D. 4

- 2) A merry-go-round has radius 5 meters. A child rides on it and goes around 4 complete times. How far does the child travel? Use $\pi \approx 3.14$. Round to the nearest tenth.

- 3) A streaming service costs \$12.99 per month plus a one-time setup fee of \$19.99. Which expression shows the total cost C for n months?

☐ A. $C = 19.99 + 12.99n$ ☐ C. $C = 19.99(n + 12.99)$ ☐ B. $C = 19.99n + 12.99$ ☐ D. $C = 12.99n + 12.99$

- 4) What is the value of 5^0 ?

☐ A. 0☐ C. 5☐ B. 1☐ D. Undefined

- 5) What is $-7 \times (-3)$?

☐ A. -21☐ C. 10☐ B. -10☐ D. 21

- 6) Simplify: $4(x - 2) + 3(x + 1)$.
- ☐ A. $4x - 8 + 3x + 3$ (expanded form) ☐ C. $7x - 11$
☐ B. $7x - 5$ (simplified form) ☐ D. $12x - 5$
- 7) A box contains cards numbered 5 through 14. A card is drawn at random. What is the probability of drawing a card with a number divisible by 3?
- ☐ A. $\frac{1}{5}$ ☐ C. $\frac{2}{5}$
☐ B. $\frac{3}{10}$ ☐ D. $\frac{1}{3}$
- 8) A coin is flipped and a number is chosen from a spinner with sections 1, 2, 3, 4. How many favorable outcomes result in a heads and an odd number?
- ☐ A. 1 ☐ C. 3
☐ B. 2 ☐ D. 4
- 9) A school must choose between two lunch-line systems. System A averages 8 minutes wait with MAD 0.5 minutes. System B averages 8.2 minutes with MAD 1.8 minutes. For student experience, which is better?
- ☐ A. System B (slightly faster average) ☐ C. Both are equally acceptable
☐ B. System A (consistent experience, predictable waits) ☐ D. Requires knowing the number of students
- 10) A double-bar graph compares the number of books read by boys and girls in two grade levels: Grade 6 boys 24, Grade 6 girls 32; Grade 7 boys 28, Grade 7 girls 35. Which statement is BEST supported by this display?
- ☐ A. Girls always read more books than boys ☐ C. Grade 7 students read the most books overall
☐ B. In both grades, girls tend to read more books than boys in the same grade ☐ D. Boys read fewer books because they prefer other activities



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- 1) A company tracks employee satisfaction. Very satisfied is 38%, satisfied is 42%, neutral is 15%, and unsatisfied is 5%. If there are 200 employees, how many are very satisfied?

☐ A. 38☐ C. 76☐ B. 60☐ D. 84

- 2) A number cube is labeled with the numbers 1, 2, 2, 3, 3, 3. When rolled, what is the probability of rolling a 3?

☐ A. $\frac{1}{3}$ ☐ C. $\frac{2}{3}$ ☐ B. $\frac{1}{2}$ ☐ D. $\frac{1}{6}$

Scale: 1 cm : 2.5 m



3.6 cm $\times$ 2.4 cm

3)

A scale drawing of a loading dock is 3.6 cm by 2.4 cm with a scale of 1 cm : 2.5 m. What is the area of the actual loading dock in square meters?

☐ A. 8.64 m²☐ C. 54 m²☐ B. 21.6 m²☐ D. 81 m²

- 4) How much principal is needed to earn \$500 in simple interest at 5% per year over 4 years?



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5) A spinner has 10 equal sections. Find $P(\text{not landing on section 1})$.

- ☐ A. $\frac{1}{10}$
☐ B. $\frac{1}{9}$

- ☐ C. $\frac{9}{10}$
☐ D. $\frac{1}{2}$

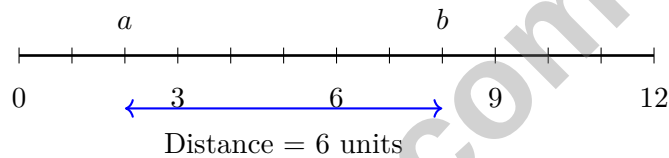
6) A student says the probability of an event is $\frac{2}{3}$ and the probability of its complement is $\frac{1}{3}$. Is this correct?

- ☐ A. Yes, because $\frac{2}{3} + \frac{1}{3} = 1$

- ☐ B. No, the complement should be $\frac{1}{2}$

- ☐ C. No, the complement should be $\frac{3}{3}$

- ☐ D. Cannot tell without more information



7)

If $a = 2$ and $b = 8$, the distance formula $|a - b|$ gives $|2 - 8| = 6$. What would the distance be if $a = -4$ and $b = 5$?

- ☐ A. -9
☐ B. 1

- ☐ C. 9
☐ D. -1

8) A furniture store applies a 12% sales tax to all items. If a table costs \$250 before tax, what is the total cost?

- ☐ A. \$238
☐ B. \$262

- ☐ C. \$280
☐ D. \$262.50



Mississippi MAAP Grade 7 Practice Test Answer Keys**How to use this section with a Grade 7 student:**

1. check the answer first and circle any item that needs another look
2. retry the problem with fresh work before reading the explanation
3. write one short lesson learned from each missed or guessed item

A strong review routine turns every correction into a sharper plan for the next Mississippi MAAP practice test.



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Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- 1) **Choice D is correct.** (7.RP.3) Loan 1 rate: $240 = 3000 \times r \times 2 \Rightarrow r = 0.04 = 4\%$. Loan 2 rate: $360 = 3000 \times r \times 2 \Rightarrow r = 0.06 = 6\%$. Difference: $6\% - 4\% = 2\%$.
- 2) **Choice C is correct.** (7.EE.4b) Check $x = 6$: $6 - 4 = 2 \not\geq 3$. The other values give 3, 6, and 96, all ≥ 3 .
- 3) **Choice A is correct.** (7.EE.1-7.EE.2) Combine like terms: $(3x + 2x) + (5 - 7) = 5x - 2$.
- 4) **The correct answer is \$1150.** (7.RP.3) Balance: $800 + 200 - 150 + 300 = \1150 .
- 5) **Choice B is correct.** (7.EE.3-7.EE.4) Subtract 8: $-3x = -6$. Divide by -3 : $x = 2$.
- 6) **The correct answer is 30.** (7.RP.3) Months = $\$1,200 \div \$40 = 30$ months.
- 7) **Choice B is correct.** (7.G.1-7.G.5) A 180° rotation about the origin uses the rule $(x, y) \rightarrow (-x, -y)$, negating both coordinates. The center $(2, 2)$ of Figure A maps to $(-2, -2)$, the center of Figure B. This confirms the 180° rotation.
- 8) **Choice A is correct.** (7.NS.1-7.NS.3) Negative divided by positive is negative: $-72 \div 8 = -9$.
- 9) **Choice C is correct.** (7.NS.1-7.NS.3) Markup: $\frac{1}{4} \times 80 = 20$. Selling price: $80 + 20 = 100$ dollars.
- 10) **The correct answer is -10 .** (7.NS.1b) $-12 + 7 = -5$, then $-5 + (-5) = -10$. Alternatively, group negatives: $-12 + (-5) = -17$, then $-17 + 7 = -10$.
- 11) **Choice B is correct.** (7.NS.1-7.NS.3) Perfect squares are numbers like 4, 9, 16, 25 that are products of a whole number times itself. Since $5 \times 5 = 25$, it is a perfect square.
- 12) **Choice B is correct.** (7.NS.1-7.NS.3) $5.0 \times 10^{-1} = 5.0 \times 0.1 = 0.5$. The pattern shows decreasing powers yield smaller values.
- 13) **Choice A is correct.** (7.EE.1-7.EE.2) Quotient rule: $\frac{b^8}{b^3} = b^{8-3} = b^5$.
- 14) **Choice B is correct.** (7.EE.4a) Distribute: $6x + 3 = 21$. Subtract 3: $6x = 18$. Divide by 6: $x = 3$.
- 15) **Choice A is correct.** (7.EE.3-7.EE.4) All steps follow correctly: $3(x - 2) = 15 \rightarrow x - 2 = 5 \rightarrow x = 7$.
- 16) **The correct answer is $\frac{3}{4}$.** (7.NS.1-7.NS.3) Honey for scaled recipe = $\frac{2}{3} \times \frac{3}{2} = 1$ cup. Honey used for granola bars = $\frac{1}{4} \times 1 = \frac{1}{4}$ cup. Remaining: $1 - \frac{1}{4} = \frac{3}{4}$ cup.
- 17) **Choice C is correct.** (7.G.1-7.G.5) If $\frac{1}{4}$ inch represents 1 foot, then $\frac{3}{4}$ inch represents 3 feet: $\frac{3}{4} \div \frac{1}{4} = 3$.
- 18) **The correct answer is A,D.** (7.NS.1-7.NS.3) Statement A is true: the opposite of -5 is 5 (positive). Statement D is true: -5 and 5 are each 5 units from zero. Statement B is false because opposites have the same absolute value. Statement C is false: $5 + (-5) = 0$, not 10.
- 19) **Choice B is correct.** (7.NS.2) Negative times negative always yields a positive product.
- 20) **Choice A is correct.** (7.EE.1-7.EE.2) $\gcd(8, 12) = 4$, so $8a - 12b = 4(2a - 3b)$.
- 21) **Choice B is correct.** (7.SP.5-7.SP.8) PROBABILITY has 11 letters. Two B's are present (at positions 4 and 6), so $P(B) = \frac{2}{11}$.
- 22) **Choice C is correct.** (7.RP.3) Shipping cost = $3 + (2.50 \times 4) = 3 + 10 = \13.00 .
- 23) **Choice C is correct.** (7.G.4-7.G.6) Rectangle: $8 \times 6 = 48 \text{ m}^2$. Circle: $3.14 \times 4 = 12.56 \text{ m}^2$. Total: $48 + 12.56 = 60.56 \text{ m}^2$.
- 24) **Choice C is correct.** (7.RP.1-7.RP.3) Original area: $10 \times 5 = 50 \text{ m}^2$. New dimensions: $20 \times 10 = 200 \text{ m}^2$.
- 25) **Choice C is correct.** (7.G.4-7.G.6) Base area = $\frac{1}{2} \times 8 \times 6 = 24 \text{ cm}^2$. Volume = $24 \times 15 = 360 \text{ cm}^3$.
- 26) **Choice C is correct.** (7.G.1-7.G.5) For a triangle with two sides of 10 m: $|10 - 10| < c < 10 + 10$ gives $0 < c < 20$. Only 15 m satisfies this range.
- 27) **Choice A is correct.** (7.G.4-7.G.6) $r = \frac{d}{2} = \frac{13.4}{2} = 6.7 \text{ mm}$.
- 28) **Choice B is correct.** (7.G.1-7.G.5) Given three specific side lengths that satisfy the Triangle Inequality, exactly one unique triangle (up to congruence) can be formed. In fact, this is a right triangle because $6^2 + 8^2 = 10^2$.
- 29) **Choice B is correct.** (7.SP.5-7.SP.8) $\frac{3}{4} = 0.75$. Dividing $3 \div 4 = 0.75$.
- 30) **Choice C is correct.** (7.SP.1-7.SP.4) Researcher 1: $\frac{8}{32} = 0.25$ or 25%. Researcher 2: $\frac{12}{48} = 0.25$ or 25%. Same proportion, though Researcher 2's larger sample is more reliable.



The Power of Showing Work

Hi, Organized Solver!

◇ You practiced Grade 7 skills that often require more than one step. That means your written work matters. ◇

★ **Remember this:** Showing work is not extra. It is how you track your thinking, find errors, and prove that your answer did not happen by luck. You practiced across 8 full Grade 7 practice tests, and that repeated effort matters. ★

Organized Work Habits

- **One Line Per Step:** Keep the path readable.
- **Box the Answer:** Make the final result easy to find.
- **Use Labels:** Tell what each value represents.
- **Check the Path:** Follow your steps backward if needed.

Grade 7 test-day tip: When a problem has several steps, write less on each line. Space makes checking easier.

If you want to share something or ask a question, please email me at jay@testinar.com.

Jay Daie

Your Organized-Work Coach

PRACTICE TODAY. SUCCEED TOMORROW!

This book includes **8** full-length Math practice tests and **2** online tests to help Grade 7 students build confidence, strengthen skills, and excel on standardized assessments.

Each practice test is carefully crafted to reflect the latest standards and includes a variety of question types, realistic test conditions, and detailed answer explanations.

Perfect for classroom use, homework, test preparation, and extra practice at home.



THIS BOOK INCLUDES:

8 Full-Length Printed Tests

2 Online Practice Tests

 Detailed Answer Explanations



MORE PRACTICE. GREATER RESULTS.

Give your child the tools to build strong math skills, confidence, and a positive attitude toward learning.

WHAT YOU'LL GAIN



Stronger Math Skills

Build a solid foundation through targeted practice and review.



Better Problem Solving

Develop logical thinking and effective solution strategies.



Deeper Understanding

Reinforce key concepts with clear explanations and meaningful practice.



Test Confidence

Familiarize with test formats and improve accuracy and speed.



Achieve Success

Build confidence and perform your best on test day.

TOPICS COVERED

- ✓ Ratios & Proportions
- ✓ The Number System
- ✓ Expressions & Equations
- ✓ Geometry
- ✓ Percents & Decimals
- ✓ Statistics & Probability
- ✓ Data Analysis
- ✓ Measurement & Conversions
- ✓ Algebraic Thinking
- ✓ And More!



2 ONLINE TESTS

Use these two additional online practice tests for extra review after the printed tests in this book.



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